

DA AV EQ Series

Composite Video and Audio Distribution Amplifiers with Gain and EQ Controls



COMMON FEATURES

- 150 MHz (-3 dB) video bandwidth, fully loaded
- Variable gain and EQ adjustments, except for the DA 3AV RCA
- Independent gain and EQ control for every two outputs, except for the DA 3AV RCA
- Buffered and amplified outputs drive signals 1,000 feet (300 meters) or more
- Video inputs and outputs on female BNC connectors
- Input loop-through
- 1U, 6" deep, half-rack metal enclosure
- Internal international power supply

DESCRIPTION

The Extron **DA AV EQ Series** are high performance distribution amplifiers designed to split and extend composite video and audio signals over long cable runs while maintaining the quality and strength of a signal source.

The DA AV EQ Series includes six distribution amplifiers for composite video and audio signals. With 150 MHz (-3dB) video bandwidth, fully loaded, five models feature gain adjustments to allow for compensation of signal level loss that occurs over long cable runs, while the EQ adjustments compensates for high frequency loss. All video models are compatible with NTSC, PAL, and SECAM video signals, and allow for cable runs of 600 feet (180 meters) to 1,000 feet (300 meters) or more, depending on the quality of the coax cable. Each video model also includes input loop-through capabilities, which enables users to add more amplifiers and create a larger DA system or drive a local monitor.

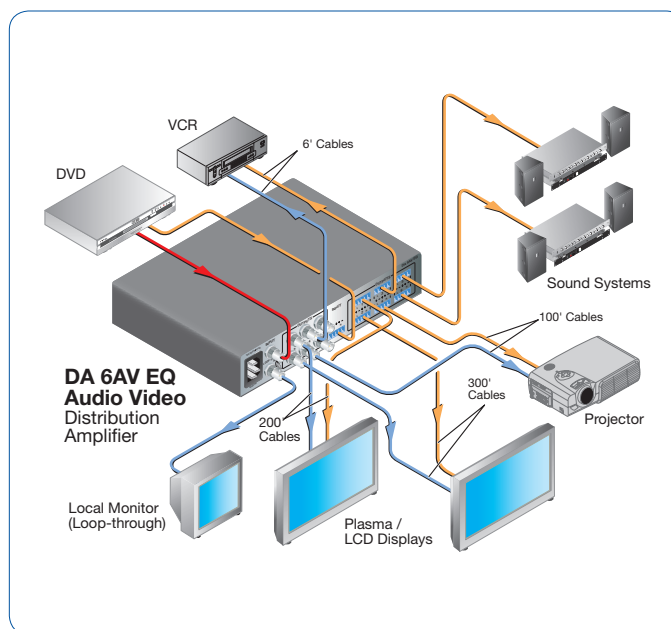
Composite Video Only Models

All video inputs and outputs are on female BNC connectors.

Composite Video and Stereo Audio Models

All video inputs and outputs are on female BNC connectors. The **DA 3AV RCA** and **DA 6AV RCA EQ** accept and distribute unbalanced stereo audio on RCA jacks, while the **DA 6AV EQ** features balanced/unbalanced stereo audio inputs and outputs on captive screw connectors.

Housed in durable and compact half-rack metal enclosures, the DA AV EQ Series is designed for easy integration into both new and existing A/V systems including boardrooms, training facilities, home theater, command and control centers, and rental and staging environments.



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DA AV EQ Series

Composite Video Models

DA 6V EQ

Six Output Composite Video Distribution Amplifier with Gain and EQ Controls

UNIQUE FEATURES

- Accepts and distributes composite video on female BNC connectors
- Independent variable gain and EQ controls for every two outputs



MODEL	VERSION DESCRIPTION	PART #
DA 6V EQ	1x6 Video.....	60-692-01

DA 8V/4V Dual EQ

Eight Output or Dual Four Output Composite Video Distribution Amplifier with Gain and EQ Controls

UNIQUE FEATURES

- Accepts and distributes composite video on female BNC connectors
- Two distribution amplifiers in a single enclosure
- Configure as a single 1x8 composite video DA, two 1x4 composite video DAs, or one 1x4 S-video DA
- Independent variable gain and EQ controls for every two outputs



MODEL	VERSION DESCRIPTION	PART #
DA 8V/4V Dual EQ	1x8 or Dual 1x4 w/Gain & EQ.....	60-693-01

DA 12V/6V Dual EQ

12 Output or Dual Six Output Composite Video Distribution Amplifier with Gain and EQ Controls

UNIQUE FEATURES

- Accepts and distributes composite video on female BNC connectors
- Two distribution amplifiers in a single enclosure
- Configure as a single 1x12 composite video DA, two 1x6 composite video DAs, or one 1x6 S-video DA
- Independent variable gain and EQ controls for every two outputs



MODEL	VERSION DESCRIPTION	PART #
DA 12V/6V Dual EQ	1x12 or Dual 1x6 w/Gain & EQ.....	60-694-01

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DA AV EQ Series

Composite Video and Stereo Audio Models

DA 3AV RCA

Three Output Composite Video and Stereo Audio Distribution Amplifier

UNIQUE FEATURES

- Accepts and distributes composite video on female BNC connectors
- Unbalanced stereo audio on RCA jacks



MODEL	VERSION DESCRIPTION	PART #
DA 3AV RCA	1x3 w/Audio on RCAs.....	60-695-31

DA 6AV EQ

Six Output Composite Video and Stereo Audio Distribution Amplifier with Gain and EQ Controls

UNIQUE FEATURES

- Accepts and distributes composite video on female BNC connectors
- Independent variable gain and EQ controls for every two outputs
- Balanced/unbalanced stereo audio on captive screw connectors
- Audio unity gain selectable per output



MODEL	VERSION DESCRIPTION	PART #
DA 6AV EQ	1x6 w/Audio.....	60-692-21

DA 6AV RCA EQ

Six Output Composite Video and Stereo Audio Distribution Amplifier with Gain and EQ Controls

UNIQUE FEATURES

- Accepts and distributes composite video on female BNC connectors
- Independent variable gain and EQ controls for every two outputs
- Unbalanced stereo audio on RCA jacks
- Audio unity gain selectable per output



MODEL	VERSION DESCRIPTION	PART #
DA 6AV RCA EQ	1x6 w/Audio on RCAs.....	60-692-31

DA AV EQ Series Accessories

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
RSU 126	1U 6" Deep Universal Rack Shelf Kit.....	page 819	60-190-10
RSB 126	1U 6" Deep Basic Rack Shelf.....	page 819	60-604-10
CSR 6	Captive Screw to RCA Female Audio Adapter.....	page 796	26-575-01

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DA AV EQ Series

SPECIFICATIONS

VIDEO

Gain (all models except DA 6A and DA 3AV RCA) -1 dB to +3 dB (x 0.9 to x 1.4), adjustable per every 2 outputs
Equalization (all models except DA 3AV RCA) 0 dB to +8 dB (x 1 to x 2) at 5 MHz, adjustable per every 2 outputs
Bandwidth 150 MHz (-3 dB)
Output cable driving distance Up to 1000 feet with Mini HR cable, up to 1500 feet with RG6 or RG59 cables

VIDEO INPUT AND LOOP-THROUGH

Number / Signal type
 DA 6V, DA 6AV, DA 6AV RCA EQ, and DA 3AV RCA models 1 composite video input, 1 composite video passive loop-through
 DA 12V/6V Dual EQ and DA 8V/4V Dual EQ models 1 composite video and 1 buffered loop-through or 2 composite video

Connectors
 DA 6V, DA 6AV, DA 6AV RCA EQ, and DA 3AV RCA models 1 female BNC (input), 1 female BNC (loop-through)
 DA 12V/6V Dual EQ 2 female BNC
 DA 8V/4V Dual EQ 2 female BNC
Nominal level 1 Vp-p for Y of S-video, and for composite video
 0.3 Vp-p for C of S-video

Minimum / Maximum levels 0.4 V to 2.0 Vp-p with no offset at unity gain

Impedance

DA 8V/4V Dual EQ and DA 12V/6V Dual 75 ohms
 All other models 75 ohms or Hi-Z, selectable

Return loss -30 dB @ 5 MHz

DC offset (max. allowable) 4.0 V, AC coupled

VIDEO OUTPUT

Number / Signal type
 DA 6V, DA 6AV, and DA 6AV RCA EQ models 6 composite video
 DA 12V/6V Dual EQ 12 composite video
 DA 8V/4V Dual EQ 8 composite video
 DA 3AV RCA 3 composite video

Connectors
 DA 6V, DA 6AV, and DA 6AV RCA EQ models 6 female BNC
 DA 12V/6V Dual EQ 12 female BNC
 DA 8V/4V Dual EQ 8 female BNC
 DA 3AV RCA 3 female BNC
Nominal level 1 Vp-p for composite video and for Y of S-video
 0.3 Vp-p for C of S-video

Minimum / Maximum levels Composite video or Y signal 0.4 V to 2.0 Vp-p with no offset at unity gain

DA 6SV, DA 6SVA, and DA 6SVA RCA EQ Y: 0.4 V to 2.0 Vp-p with no offset at unity gain

Impedance 75 ohms

Return loss -30 dB @ 5 MHz

SYNC

Standards NTSC 3.58, NTSC 4.43, PAL, SECAM

AUDIO (COMPOSITE VIDEO AND STEREO AUDIO MODELS ONLY)

Gain Unity when internal jumpers are set to match output wiring. See table below for other conditions.

Output Wiring	Internal Jumpers	
	Balanced	Unbalanced
Balanced	0 dB	+6 dB
Unbalanced	-6 dB	0 dB

Frequency response 20 Hz to 20 kHz, ±0.05 dB (with voltage reference @ 1 kHz)
THD + Noise 0.03% @ 1 kHz at nominal level
S/N (at any output) >90 dB, unbalanced, at maximum output (unweighted)
Stereo channel separation >80 dB @ 1 kHz, >60 dB @ 20 kHz
CMRR >75 dB @ 20 Hz to 20 kHz

Output cable driving distance Up to 1000 feet with STP 22 cable

AUDIO INPUT (COMPOSITE VIDEO AND STEREO AUDIO MODELS ONLY)

Number / Signal type
 DA 3AV RCA, DA 6AV RCA EQ... 1 stereo, unbalanced
 DA 6AV EQ 1 stereo, balanced/unbalanced

Connectors
 DA 3AV RCA, DA 6AV RCA EQ... 1 pair female RCA
 DA 6AV EQ (1) 3.5 mm captive screw connector, 5 pole

Impedance
 RCA models >18k ohms, unbalanced, DC coupled
 DA 6AV EQ, DA 6SVA EQ, DA 6A >18k ohms unbalanced, >24k ohms balanced, DC coupled

Nominal level Compatible with +4 dBu (1.23 Vrms), 0 dBu (0.775 Vrms), -10 dBV (316 mVrms), -20 dBV (100 mVrms)

Maximum level
 DA 3AV RCA, DA 6AV RCA EQ... +18 dBu, (unbalanced) at 1%THD+N

DA 6AV EQ +24 dBu, (balanced) at 1%THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV = 2 dBu

AUDIO OUTPUT (COMPOSITE VIDEO AND STEREO AUDIO MODELS ONLY)

Number / Signal type
 DA 6AV RCA EQ 6 stereo, unbalanced
 DA 3AV RCA 3 stereo, unbalanced
 DA 6AV EQ 6 stereo, balanced/unbalanced

Connectors
 DA 3AV RCA, DA 6AV RCA EQ... 6 pairs of female RCA jacks
 DA 6AV EQ (6) 3.5 mm captive screw connectors, 5 pole

Impedance
 DA 6AV RCA EQ 50 ohms unbalanced
 DA 3AV RCA 50 ohms, unbalanced
 DA 6AV EQ 50 ohms unbalanced, 100 ohms balanced

Maximum level (Hi-Z)
 DA 3AV RCA, DA 6AV RCA EQ... >+18 dBu, unbalanced at 1%THD+N

DA 6AV EQ >+24 dBu, balanced at 1%THD+N

Maximum level (600 ohm)
 DA 6AV EQ >+15 dBm, balanced at 1%THD+N

GENERAL

Power 100 VAC to 240 VAC, 50/60 Hz, 8 watts, internal, universal
Temperature / Humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
 Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Rack mount Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or #60-190-10 or 60-604-10; Also furniture mountable with an optional Under-Desk Mounting Kit, #70-077-01, or Through-Desk Mounting Kit, #70-077-02

Enclosure type Metal
Enclosure dimensions 1.7" H x 8.7" W x 6.0" D (1U high, half rack wide)
 4.3 cm H x 22.1 cm W x 15.2 cm D (Depth excludes connectors.)

Product weight 2 lbs (0.9 kg)

Shipping weight 4 lbs (2 kg)

Vibration ISTA 1A in carton (International Safe Transit Association)

Listings UL, CUL

Compliances CE, FCC Class A, VCCI, AS/NZS, ICES

MTBF 30,000 hours

Warranty 3 years parts and labor

NOTE: All nominal levels are at ±10%. Specifications are subject to change without notice.